



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Construction of Culverts and Improvements to Drain Bharatnagar Cross Road in Ward No.06, Byatarayanapura Sub Division. CALL-2

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Fineness by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
2	Coarse aggregate(40 mm down size)	Compressive Strength	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
3	Coarse aggregate(20 mm down size)	Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
4	Fine aggregate	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Bend test	One Test		1	1
5	Steel	Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
		Core Compressive Strength	One Test		1	1
6	Precast (100mm)	Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
		Core Compressive Strength	One Test		1	1
7	Precast (230mm)	Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
		Core Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	4 set /31-50 cum	43.7	8	8

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No. CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022- 06-15-26 Date: 21-04-2022
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP,
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Construction of Culverts and Improvements to Drain Bharatnagar Cross
Agency : Sri. U.Suresh.No.12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T
Customer's Reference : BBMP/EE/BTP/WO/10/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 18-04-2022
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2,3,4,5, 6,11): 1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING,
Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability
Method, Clause 5
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste,
Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019) DETERMINATION OF DENSITY , Clause 6

Date of test : 19-04-2022
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.25	—
2	Finess by Air permeability method (m ² /kg,Min)	283.4	225m ² /kg, Min
3	Density (gm/cc)	3.89	—
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	158 minutes	Not less than 30 minutes
6	Final Setting time	302 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

Page 1/1
Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024



FOR CIVIL PRO.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022- 06-15-26 Date: 17-05-2022

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Culverts and Improvements to Drain Bharatnagar Cross Road in Ward No.06, Byatarayanapura Sub Division. CALL-2

Agency : Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/10/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-04-2022

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6

Date of test : 19-04-2022

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.2N/mm ²	Not less than 27 N/mm ²
2	7 Days	38.6N/mm ²	Not less than 37 N/mm ²
3	28 Days	59.5N/mm ²	Not less than 53 N/mm ²

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(Signature)
Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore



FOR CIVIL PRO
(Signature)
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022- 06-15-26 Date: 21-04-2022

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Culverts and Improvements to Drain Bharatnagar Cross Road in Ward No.06, Byatarayanapura Sub Division. CALL-2

Agency : Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/10/2022-23

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 18-04-2022

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 18-04-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	365	365	2.4	97.6	90-100
3	20 mm	6752	7117	47.4	52.6	30-70
4	10 mm	5292	12409	82.7	17.3	10-35
5	4.75 mm	2090	14499	96.7	3.3	0-5
6	Pan	532	15031	100.2	0	---

2022-04-21
Assistant Executive Engineer
Byatarayanapura Sub Division
BBMP, Bangalore-560024



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022- 06-15-26

Date: 21-04-2022

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.65	—
4	Bulk Density(Loose) (Kg/l)	1.58	—
5	Bulk Density(Compacted) (Kg/l)	1.52	—
6	Water Absorption(%)	0.29	—

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20.04.2022



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(Handwritten signature)
R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 2/2

****End of Report****

(Handwritten signature)
20.04.2022
Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

TEST REPORT ON COARSE AGGREGATES

Date: 20-04-2022

Lab ID : CP-2022- 06-15-26
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Construction of Culverts and Improvements to Drain Bharatnagar Cross Road in Ward No.06, Byatarayanapura Sub Division. CALL-2
Agency : Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer Reference : BBMP/EE/BTP/WO/10/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 18-04-2022
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 18-04-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	-

Page 1/2

Assistant Executive Engineer
Byatarayanapura Sub Division
B B M P Bangalore-560024



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2022- 06-15-26

Date: 20-04-2022

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	—
4	Bulk Density(Loose) (Kg/l)	1.53	—
5	Bulk Density(Compacted) (Kg/l)	1.55	—
6	Water Absorption(%)	0.22	—
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface.

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Assistant Executive Engineer
Byatarayanahalli Division
B.B.M.P. Bangalore-560024



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R KARTHIK RECHAN
Authorized Signature
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Date: 21-04-2022

Lab ID : CP-2022- 06-15-26
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Construction of Culverts and Improvements to Drain Bharatnagar Cross Road in Ward No.06, Byatarayanapura Sub Division. CALL-2
Agency : Sri. U.Suresh, No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer's Reference : BBMP/EE/BTP/WO/10/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 18-04-2022
Sample Type : Fine Aggregate
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 : 1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 18-04-2022

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	35	35	3.5	96.5	90-100	90-100	90-100	95-100
3	2.36 mm	172	207	20.7	79.3	60-95	75-100	85-100	95-100
4	1.18 mm	116	323	32.3	67.7	30-70	55-90	75-100	90-100
5	600 micron	201	524	52.4	47.6	15-34	35-59	60-79	80-100
6	300 micron	217	741	74.1	25.9	5-20	8-30	12-40	15-50
7	150 micron	183	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

Page 1/2
Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022- 06-15-26

Date: 21-04-2022

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	-
2	Specific Gravity	2.59	-
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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21.04.2022

Assistant Executive Engineer
Byatarayanapura Sub Division
B.E.M.P. Bangalore-560024



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Handwritten signature of R. Karthik Rechan
R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 2/2

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF STEEL

Lab ID : CP-2022- 06-15-26 Date: 19-04-2022

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Culverts and Improvements to Drain Bharatnagar Cross Road in Ward No.06, Byatarayanapura Sub Division. CALL-2

Agency : Sri. U.Suresh.No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/10/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-04-2022

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.

Date of test : 18-04-2022

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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ಮಂಡಳಿ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಮುಖ್ಯಮಂತ್ರಿ ನಗರ ಪಾಲಿಕೆ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024
End of Report



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KARTHIK RECHAN
Authorized Signatory
Quality Manager

TEST REPORT OF PRECAST COVER SLAB

Date: 24-05-2022

Lab ID : CP-2022- 06-15-26
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Construction of Culverts and Improvements to Drain Bharatnagar Cross Road in Ward No.06, Byatarayanapura Sub Division. CALL-2
Agency : Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer's Reference : BBMP/EE/BTP/WO/10/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 20-05-2022
Sample Type /Size : Precast Cover Slab-100mm
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test : 20/05/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.22	100.25	1.126	4443	81.6	18.4	17.1	21.4
2	Cover Slab-2	75.47	100.38	1.332	4473	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.17	100.61	1.568	4437	80.9	18.2	17.0	21.2

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(Signature)
Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024



FOR CIVIL Pro.
(Signature)
R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

TEST REPORT OF PRECAST COVER SLAB

Date: 30-05-2022

Lab ID : CP-2022- 06-15-26
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Construction of Culverts and Improvements to Drain Bharatnagar Cross Road in Ward No.06, Byatarayanapura Sub Division. CALL-2
Agency : Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer's Reference : BBMP/EE/BTP/WO/10/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-05-2022
Sample Type /Size : Precast Cover Slab-230mm
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test : 25/05/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	150.38	230.23	3.136	17758	397.6	22.4	20.8	26.0
2	Cover Slab-2	150.95	230.29	3.145	17893	397.1	22.2	20.6	25.8
3	Cover Slab-3	150.48	230.33	3.150	17781	398.8	22.4	20.9	26.1

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Assistant Executive Engineer
Byatarayanapura Sub Division
B.D.***B. Bangalore-560024
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FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/05/2022

Lab ID : CP-2022-06-15-26
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Construction of Culverts and Improvements to Drain Bharatnagar Cross Road in Ward No.06.
Agency : Byatarayanapura Sub Division, CALL-2
Customer's Reference : Sri. U.Suresh.No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Source of Sample : BBMP/EE/BTP/WO/10/2022-23
Sample Condition : Sample supplied by Agency
Date of Receipt : Satisfactory
Customer ID : 16-05-2022
Sample Type /Size : Drain Bottom Raft
Sample grade/Age : 150X150X150 mm
Reference to BIS codes : M20 / 7 Days Compressive Strength
IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft	M20	13/05/2022	20/05/2022	151.90 X 150.33 X 150.68	22835	8.203	422.6	18.5	18.6
2	Drain Bottom Raft	M20	13/05/2022	20/05/2022	150.15 X 150.19 X 150.77	22551	8.827	413.6	18.3	
3	Drain Bottom Raft	M20	13/05/2022	20/05/2022	151.56 X 150.92 X 149.31	22873	8.555	432.1	18.9	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

Handwritten signature
Assistant Executive Engineer
Byatarayanapura Sub Division
B.B. Nagar, Bangalore-560024



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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022- 06-15-26 Date: 10/06/2022
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Construction of Culverts and Improvements to Drain Bharatnagar Cross Road in Ward No.06.
Agency : Byatarayanapura Sub Division. CALL-2
Customer's Reference : Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Source of Sample : BBMP/EE/BTP/WO/10/2022-23
Sample Condition : Sample supplied by Agency
Date of Receipt : Satisfactory
Customer ID : 16-05-2022
Sample Type /Size : Drain Bottom Raft
Sample grade/Age : 150X150X150 mm
Reference to BIS codes : M20 / 28 Days Compressive Strength
IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C1.5

Date of test : 10/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft	M20	13/05/2022	10/06/2022	149.43 X 150.42 X 150.67	22477	8.648	521.0	23.2	22.9
2	Drain Bottom Raft	M20	13/05/2022	10/06/2022	149.95 X 151.61 X 151.96	22734	8.464	505.5	22.2	
3	Drain Bottom Raft	M20	13/05/2022	10/06/2022	151.54 X 149.62 X 149.25	22674	8.290	530.4	23.4	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024



FOR CIVIL Pro.

Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801

e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/05/2022

Lab ID : CP-2022- 06-15-26
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Construction of Culverts and Improvements to Drain Bharatnagar Cross Road in Ward No.06, Byatarayanapura Sub Division, CALL-2
Agency : Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer's Reference : BBMP/EE/BTP/WO/10/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-05-2022
Customer ID : Drain Side Wall
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall	M20	14/05/2022	21/05/2022	151.52 X 149.34 X 149.52	22629	8.103	408.3	18.0	18.3
2	Drain Side Wall	M20	14/05/2022	21/05/2022	150.78 X 149.74 X 150.96	22577	8.941	420.2	18.6	
3	Drain Side Wall	M20	14/05/2022	21/05/2022	151.71 X 150.40 X 150.68	22819	8.894	418.1	18.3	

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Note:

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(Signature)
Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024
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(Signature)
R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/06/2022

Lab ID : CP-2022- 06-15-26
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Construction of Culverts and Improvements to Drain Bharatnagar Cross Road in Ward No.06.
Agency : Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer's Reference : BBMP/EE/BTP/WO/10/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-05-2022
Customer ID : Drain Side Wall
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall	M20	14/05/2022	11/06/2022	150.66 X 150.03 X 149.80	22604	8.123	525.7	23.3	23.4
2	Drain Side Wall	M20	14/05/2022	11/06/2022	149.80 X 151.65 X 149.81	22718	8.116	521.7	23.0	
3	Drain Side Wall	M20	14/05/2022	11/06/2022	149.61 X 150.28 X 151.01	22484	8.829	537.0	23.9	

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[Signature]
Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore
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End of Report



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[Signature]
R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/05/2022

Lab ID : CP-2022- 06-15-26
 Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
 Address : Byatarayanapura Sub Division, BBMP, Bangalore.
 Project Name : Construction of Culverts and Improvements to Drain Bharatnagar Cross Road in Ward No.06, Byatarayanapura Sub Division. CALL-2
 Agency : Sri. U.Suresh.No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
 Customer's Reference : BBMP/EE/BTP/WO/10/2022-23
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 19-05-2022
 Customer ID : Culvert Bottom Raft
 Sample Type /Size : 150X150X150 mm
 Sample grade/Age : M20 / 7 Days Compressive Strength
 Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Culvert Bottom Raft	M20	16/05/2022	23/05/2022	151.69 X 149.38 X 149.50	22660	8.893	429.4	18.9	18.8
2	Culvert Bottom Raft	M20	16/05/2022	23/05/2022	151.65 X 151.72 X 150.61	23008	8.639	435.5	18.9	
3	Culvert Bottom Raft	M20	16/05/2022	23/05/2022	149.20 X 150.87 X 151.50	22511	8.212	414.5	18.4	

* The results obtained are satisfactory as per standard requirements.

Note:

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(Signature)
 Assistant Executive Engineer
 Byatarayanapura Sub Division
 Bangalore-560024

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Certificate No.: TC-5548

Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/06/2022

Lab ID : CP-2022- 06-15-26
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Construction of Culverts and Improvements to Drain Bharatnagar Cross Road in Ward No.06, Byatarayanapura Sub Division. CALL-2
Agency : Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer's Reference : BBMP/EE/BTP/WO/10/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 19-05-2022
Customer ID : Culvert Bottom Raft
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Culvert Bottom Raft	M20	16/05/2022	13/06/2022	151.27 X 150.22 X 149.93	22724	8.490	537.7	23.7	23.3
2	Culvert Bottom Raft	M20	16/05/2022	13/06/2022	151.01 X 151.48 X 151.99	22874	8.667	510.4	22.3	
3	Culvert Bottom Raft	M20	16/05/2022	13/06/2022	149.68 X 151.10 X 150.14	22617	8.463	539.6	23.9	

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(Signature)
Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024



FOR CIVIL Pro.
(Signature)
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/05/2022

Lab ID : CP-2022-06-15-26
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Construction of Culverts and Improvements to Drain Bharatnagar Cross Road in Ward No.06, Byatarayanapura Sub Division, CALL-2
Agency : Sri. U.Suresh, No.12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer's Reference : BBMP/EE/BTP/WO/10/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 19-05-2022
Customer ID : Culvert Side Wall
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Culvert Side Wall	M20	17/05/2022	24/05/2022	150.22 X 150.39 X 150.53	22592	8.656	415.0	18.4	18.3
2	Culvert Side Wall	M20	17/05/2022	24/05/2022	150.29 X 150.50 X 150.95	22618	8.171	415.4	18.4	
3	Culvert Side Wall	M20	17/05/2022	24/05/2022	149.91 X 150.98 X 149.19	22632	8.832	412.0	18.2	

* The results obtained are satisfactory as per standard requirements.

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(Signature)
Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024
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End of Report



FOR CIVIL Pro.
(Signature)
KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 14/06/2022

Lab ID : CP-2022- 06-15-26
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Construction of Culverts and Improvements to Drain Bharatnagar Cross Road in Ward No.06, Byatarayanapura Sub Division, CALL-2
Agency : Sri. U.Suresh,No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara, Bangalore-560032.
Customer's Reference : BBMP/EE/BTP/WO/10/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 19-05-2022
Customer ID : Culvert Side Wall
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Culvert Side Wall	M20	17/05/2022	14/06/2022	151.74 X 151.14 X 149.66	22934	8.561	544.4	23.7	23.0
2	Culvert Side Wall	M20	17/05/2022	14/06/2022	150.01 X 149.69 X 149.92	22454	9.089	497.3	22.1	
3	Culvert Side Wall	M20	17/05/2022	14/06/2022	150.79 X 151.14 X 149.64	22790	8.488	529.3	23.2	

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2022/06/14
Assistant Executive Engineer
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